B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

CONTENTS

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.1 General

B103.1.1 Reserved for Future Use

B103.1.2 Reserved for Future Use

B103.1.3 Mileage Measurements

A. Intraexchange mileages for continuous property channels are determined as follows:

1. Continuous property channels are applicable between different buildings on same continuous property.

   Such channels will also be applicable to multi-building complexes such as federal, county, or municipal centers, airports, shopping centers, colleges and universities, hospitals, resort developments, industrial and business complexes whether or not intersected by a public thoroughfare provided the following conditions are met:

   a. The adjacent property segments created by the intersection of a public thoroughfare would be continuous in the absence of the thoroughfare.

   b. The channels must be provided on a direct basis (not routed via the Central Office) and are available only at the economic option of the Company.

   c. The cost of any supporting structure required for such channels will be borne by the customer unless the facilities carried by the supporting structure are predominately used to provide exchange telephone service to members of the general telephone user body.

2. Where channels are located on same continuous property the rates are based on the shortest airline distance between the buildings where the channels are terminated.

3. Regular guidebook charges apply for Continuous Property channels as outlined in B103. following for those facilities in place as of December 31, 1986. The Company will continue to offer additional services on these facilities as long as such wiring or cable facilities are available. These existing facilities have been placed prior to January 1, 1987 under guidebook provisions which fully recovered the costs of such facilities as a nonrecurring charge, standard guidebook recurring and nonrecurring charges for the first one-tenth mile increment will continue to be applicable for every channel service utilized by the customer.

B103.1.4 Reserved for Future Use

B103.1.5 (DELETED) (D)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.1 General (Cont'd)

B103.1.5 (DELETED) (Cont'd) (D)

B103.2 Classification and Rates - Intraexchange - IntraLATA

B103.2.1 Series 1100 Channels

(Obsoleted 12-14-90, Type 4. Not available for new installations, moves or transfers.)

A. Terms and Conditions

1. General

   a. Series 1100, Types 1101, and 1102 private line channel service provides for the transmission of binary signals at rates up to 150 baud within the specifications and limits as stated in B103.2.1.B. following.

   b. Direct Served Channels not routed via the Central Office (non-continuous property) are limited to one mile in length and are available only at the economic option of the Company.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Classification and Rates - Intraexchange - IntraLATA (Cont'd) (O)(T)

B103.2.1 Series 1100 Channels (Cont'd) (O)(T)

B. Types and Descriptions (O)

These channels are furnished for operation on a two point or multipoint basis for service 7 days per week, 24 hours per day, for a minimum period of one month. Types 1101 and 1102 channels are furnished for half duplex or duplex operation. The transmission characteristics for the various types of services furnished within this Series are as follows: (O)(C)

1. BASIC - Parameters and Specifications for Types 1101 and 1102 Private Line Channels used with terminal equipment are described for the end to end operation as follows: (O)

   a. Basic Parameters (O)

Channel Signals	Local Channels used with terminal equipment: Limit as specified in the following Local Channel descriptions. (O)
Channel Distortion	Limit as specified in the following Local Channel descriptions. (O)
Power Requirement	For up to 75 Baud Service - Where the Company provides transmission equipment at the interface, the customer must provide a source of continuous 117 Volt, 60 Hz ac power, by means of a nonswitched outlet. For up to 150 Baud Service, the customer must in all cases provide a source of continuous 117 Volt, 60 Hz ac power, by means of a nonswitched outlet. The Company will in all cases supply all voltage and current adjustments. (O)

   These channels are not suitable for the transmission of alternating current tones. (O)(T)

2. Local Channels for use with terminal equipment are described following (Types 1101 and 1102). (O)(T)

   a. Type 1101 (O)

   Furnished for remote operation of radiotelegraph, supervisory control, miscellaneous signaling, teletypewriter, teletypesetter, and data use, binary signals at rates up to 75 baud. A two or four-wire interface engineered for binary signals at rates up to 75 baud, 20 or 62.5 milliamperes de neutral signals[1]. The terminal equipment with a transmitted output of no more than 8 percent telegraph distortion and capable of processing received data signals with up to 35 percent telegraph distortion. (O)

   b. Type 1102 (O)

   Furnished for teletypewriter, data, supervisory control, and miscellaneous signaling use, binary signals at rates up to 150 baud. EIA Standard RS232C type interface engineered for bianary signals at rates up to 150 baud and the terminal equipment with a transmitted ouptput of not more than 5 percent telegraph distortion and capable of processing received data signals with up to 40 percent telegraph distortion. (O)

3. Interoffice Channels will be similar Types 1101 and 1102. (O) (T)

   Customers must have at least one Interoffice Channel for connecting wire center serving areas in multioffice exchanges when there are station locations in different wire center serving areas. (O)

Note 1: The Company has the option of providing 20 or 62.5 milliamperes and will notify the customer of the current level to be supplied. The Company will supply the line voltage and provide for the current adjustment. The maximum open circuit voltage across the send data leads at the interface will not exceed 270 volts. (O)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Classification and Rates - Intraexchange - IntraLATA (Cont'd)

B103.2.1 Series 1100 Channels (Cont'd)

B. Types and Descriptions (Cont'd)

3. Interoffice Channels will be similar Types 1101 and 1102. (Cont'd)

a. A channel suitable for transmitting binary signals at rates up to 150 baud for use with Types 1101 and 1102 Local Channels.

C. Rates - Monthly Service

1. For use with Terminal Equipment

	Nonrecurring Charge	Monthly Rate	USOC	
a. **(DELETED)**				(D)
b. **(DELETED)**				(D)
c. Channels wholly within the same building				
(1) To connect a station location to another station location, per channel[1]				
(a) Type 1101	**$100.59**	**$2.98**	**24A++**	
(b) Type 1102	**100.59**	**2.98**	**24A++**	
(2) To connect additional station locations in a building to a Local Channel, to a channel between different buildings on the same continuous property or to a channel wholly within the same building, each termination[1]				
(a) Type 1101	**51.74**	**2.08**	**267++**	
(b) Type 1102	**51.74**	**2.08**	**267++**	
d. For a channel between different buildings on same continuous property[1,2]				
(1) First 1/10 mile				
(a) Type 1101	**100.59**	**5.06**	**1LY+E**	
(DELETED)				(D)

Note 1: Charges are applicable only for those facilities in place as of December 31, 1986.

Note 2: When a channel between buildings on the same continuous property or within the same building requires a connection to the serving wire center, then a charge for each Local Channel required will apply. The nonrecurring charge is per Channel.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Classification and Rates - Intraexchange - IntraLATA (Cont'd)

B103.2.1 Series 1100 Channels (Cont'd)

C. Rates - Monthly Service (Cont'd)

1. For use with Terminal Equipment (Cont'd)

d. For a channel between different buildings on same continuous property[1,2] (Cont'd)

(2) Each additional 1/10 mile

	Nonrecurring Charge	Monthly Rate	USOC	
(a) Type 1101	**$-**	**$4.36**	**1LY+E**	
(DELETED)				(D)

D. Rates - Monthly Service **-** Types 1109 (1204) and 1110 (1205)

1. For use with Terminal Equipment

a. Channels wholly within the same premises

(1) To connect a station location to another station location in a building, per channel[1]

(Obsoleted 12-14-90, Type 4. Customers may add channels only to the extent that they are available within facilities in place as of 12-31-86.)

(a) Type 1109 (1204)	**100.59**	**1.39**	**24A9+**	
(DELETED)				(D)

Note 1: Charges are applicable only for those facilities in place as of December 31, 1986.

Note 2: When a channel between buildings on the same continuous property or within the same building requires a connection to the serving wire center, then a charge for each Local Channel required will apply. The nonrecurring charge is per Channel.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Classification and Rates - Intraexchange - IntraLATA (Cont'd)

B103.2.1 Series 1100 Channels (Cont'd)

D. Rates - Monthly Service - Types 1109 (1204) and 1110 (1205) (Cont'd)

1. For use with Terminal Equipment (Cont'd)

b. For a channel between different buildings on same continuous property[1]

(Obsoleted 12-14-90, Type 4. Customers may add channels only to the extent that they are available within facilities in place as of 12-31-86.)

(1) First 1/10 mile

	Nonrecurring Charge	Monthly Rate	USOC
(a) Type 1109 (1204)	**$100.59**	**$3.78**	**1L3+E**
(b) Type 1110 (1205)	**100.59**	**3.78**	**1L3+E**
(2) Each additional 1/10 mile			
(a) Type 1109 (1204)	**-**	**3.78**	**1L3+E**
(b) Type 1110 (1205)	**-**	**3.78**	**1L3+E**

(M)

Note 1: Charges are applicable only for those facilities in place as of December 31, 1986.

Material previously appearing on this page now appears on page(s) 1.5.4 of this section.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Service Descriptions (Cont'd)

B103.2.2 Series 2000 - Voice Grade Service

A. Reserved for future use

B. Reserved for future use

C. Transmission parameters for voice grade service are described following:

1. Reserved for future use
2. Reserved for future use
3. Reserved for future use
4. Reserved for future use
5. Reserved for future use
6. ***Reserved for future use*** (C)
7. ***Reserved for future use*** (C)
8. Reserved for future use
9. Reserved for future use

D. Reserved for future use

E. **(DELETED)** (D)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Service Descriptions (Cont'd)

B103.2.2 Voice Grade Service - Series 2000 (Cont'd) (D)

E. (DELETED) (Cont'd)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2.2 Voice Grade Service - Series 2000 (Cont'd) (D)

E. (DELETED) (Cont'd)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Classification and Rates - Intraexchange - IntraLATA (Cont'd)

B103.2.*3* Series 2100 Channels

A. ***Terms and Conditions*** (T)

1. Local Area Data Channels

   (Obsoleted 08-26-91, Type 4. Not available for new installations, moves or transfers. Effective 08-26-91, in consideration of the decreasing supply of metallic facilities required to provide Local Area Data Channels, the Company will convert a customer's service to a Voice Grade Service or SynchroNet service and waive the nonrecurring charges associated with the change. This applies to a customer where metallic facilities are being replaced with non-metallic facilities, or a customer may elect to make this change at any time prior to a modernization program that would eliminate the availability of metallic facilities.)

   a. The Company will furnish, subject to availability of facilities, Local Area Data Channels (Types 2180, and 2181) suitable for baseband transmission of digital data signals between two points on the same continuous property or non-continuous property within the same serving wire center area. Service is limited to points that are not more than six (6) route miles apart, as determined by the Company, using normal cable routing between the points to be served. Service is offered only for balanced transmission of data signals conforming to the signal power limitations and other parameters specified in the applicable Bell System Technical Reference.

B. Types and Descriptions

1. Local Area Data Service is offered on a two point basis only. The transmission specification are dependent on the route length of the facilities utilized to provide the service as follows:

Maximum End-to-End Facility Length In Route Miles	**Maximum Insertion Loss at 1000 Hz, dB[1]**
1	9.0
2	13.5
3	17.0
4	20.0
5	23.0

Note 1: Insertion loss is referenced to 135 Ohm resistive terminations at each end.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Classification and Rates - Intraexchange - IntraLATA (Cont'd)

B103.2.3 Series 2100 Channels (Cont'd)

B. Types and Descriptions (Cont'd)

1. (Cont'd)

Maximum End-to-End Facility Length In Route Miles	Maximum Insertion Loss at 1000 Hz, dB[1]
6	25.5

2. Local Channels for use with terminal equipment are described following (Types 2180 and 2181):

a. Type 2180

A two-wire interface with effective two-wire facilities used in the provision of Local Area Data Service.

b. Type 2181

A four-wire interface with effective four-wire facilities used in the provision of Local Area Data Service.

Type 2180 and 2181 Local Channels are not suitable for switching and/or tandem operations to the public switched network or other private line services.

C. Rates - Monthly Service

1. For use with Terminal Equipment

a. For Local Channels

(1) Per Local Channel

	Nonrecurring Charge	Monthly Rate	USOC	
(a) **(DELETED)**				(D)
(b) Type 2181	**$306.36**	**$44.11**	**DUX++**	

b. For a Channel not routed via the Central office (limited to channels not more than one air mile in length)

(1) Per two-point channel

(a) **(DELETED)**				(D)
(b) Type 2181	**351.07**	**74.61**	**L84++**	

c. Channels wholly within the same building

(1) To connect a station location to another station location, per channel[2]

(Obsoleted 12-14-90, Type 4. Customers may add channels only to the extent that they are available within facilities in place as of 12-31-86.)

(a) Type 2101 (2230)	**100.59**	**1.39**	**2SE++**
(b) Type 2120 (2463)	**100.59**	**14.19**	**2SE++**
(c) Type 2121 (2260)	**100.59**	**6.06**	**2SE++**
(d) Type 2122 (2464)	**100.59**	**7.15**	**2SE++**

Note 1: Insertion loss is referenced to 135 Ohm resistive terminations at each end.

Note 2: Charges are applicable only for those facilities in place as of December 31, 1986.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Classification and Rates - Intraexchange - IntraLATA (Cont'd)

B103.2.3 Series 2100 Channels (Cont'd)

C. Rates - Monthly Service (Cont'd)

1. For use with Terminal Equipment (Cont'd)

c. Channels wholly within the same building (Cont'd)

		Nonrecurring Charge	Monthly Rate	USOC	
(1)	**(DELETED)**				(D)
(2)	To connect additional station locations in a building to a Local Channel, to a channel between different buildings on the same continuous property or to a channel wholly within the same building, each termination[1]				
	(Obsoleted 12-14-90, Type 4. Not available for new installations, moves or transfers.)				
(a)	Type 2101 (2230)	**$51.74**	**$1.39**	**4SE++**	
(b)	Type 2120 (2463)	**51.74**	**14.19**	**4SE++**	
(c)	Type 2121 (2460)	**51.74**	**3.68**	**4SE++**	
(d)	Type 2122 (2464)	**51.74**	**7.15**	**4SE++**	
(e)	Type 2140 (2261)	**142.41**	**3.68**	**4SE++**	
(f)	Type 2141 (2462)	**202.03**	**11.52**	**4SE++**	

d. For a channel between different buildings on same continuous property.[1,2]

(1)	First 1/10 mile				
(a)	Type 2101 (2230)	**99.15**	**5.06**	**1LP+E**	
(b)	Type 2120 (2463)	**99.15**	**10.03**	**1L6+E**	
(c)	Type 2121 (2260)	**99.15**	**5.06**	**1L6+E**	
(d)	Type 2122 (2464)	**99.15**	**5.06**	**1L6+E**	
(e)	**(DELETED)**				(D)
(f)	Type 2180	**344.02**	**5.16**	**1L6GE**	
(g)	Type 2181	**402.40**	**10.94**	**1L6GE**	
(2)	Each additional 1/10 mile				
(a)	Type 2101 (2230)	**-**	**4.36**	**1LP+E**	
(b)	Type 2120 (2463)	**-**	**8.64**	**1L6+E**	
(c)	Type 2121 (2260)	**-**	**4.36**	**1L6+E**	

Note 1: Charges are applicable only for those facilities in place as of December 31, 1986.

Note 2: When a channel between different buildings on the same continuous property or within the same building requires a connection to the serving wire center, then a charge for each Local Channel required will apply. The nonrecurring charge is per Channel.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.2 Classification and Rates - Intraexchange - IntraLATA (Cont'd)

B103.2.3 Series 2100 Channels (Cont'd)

C. Rates - Monthly Service (Cont'd)

1. For use with Terminal Equipment (Cont'd)

d. (Cont'd)[1,2]

(2) Each additional 1/10 mile (Cont'd)

		Nonrecurring Charge	Monthly Rate	USOC	
(d)	Type 2122 (2464)	**$-**	**$5.06**	**1L6+E**	
(e)	**(DELETED)**				(D)
(f)	Type 2180	**-**	**4.36**	**1L6GE**	
(g)	Type 2181	**-**	**8.64**	**1L6GE**	

B103.2.4 Reserved for Future Use

B103.2.5 Reserved for Future Use

B103.2.6 Reserved for Future Use

B103.2.7 (DELETED) (D)

Note 1: Charges are applicable only for those facilities in place as of December 31, 1986.

Note 2: When a channel between different buildings on the same continuous property or within the same building requires a connection to the serving wire center, then a charge for each Local Channel required will apply. The nonrecurring charge is per Channel.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA

B103.3.1 Series 1000 Channels

(Obsoleted 04-15-85, Type 3)

A. ***Terms and Conditions*** (T)

1. General

   a. Series 1000, Types 1001 and 1002 private line channel service provides for the transmission of binary signals at rates up to 150 baud within the specifications and limits as stated in B103.3.1.B. following.

B. Types and Descriptions

These channels are furnished for operation on a two point or multipoint basis for service 7 days per week, 24 hours per day, for a minimum period of one month. Types 1001 and 1002 channels are furnished for half duplex or duplex operation. The transmission characteristics for the various types of service furnished within this Series are as follows:

1. BASIC - Parameters and Specifications for Types 1001 and 1002 Private Line Channels used with terminal equipment are described for the end to end operation as follows:

   a. Basic Parameters

Channel Signals	Station Terminals used with terminal equipment: Limit as specified in the following Station Terminal descriptions.
Channel Distortion	Station Terminals: Limit as specified in the following Station Terminal descriptions.
Power Requirement	For up to 75 Baud Service - Where the Company provides transmission equipment at the interface, the customer must provide a source of continuous 117 Volt, 60 Hz ac power, by means of a nonswitched outlet. For up to 150 Baud Service, the customer must in all cases provide a source of continuous 117 Volt, 60 Hz ac power, by means of a nonswitched outlet. The Company will in all cases supply all voltages and current adjustments.

   These channels are not suitable for the transmission of alternating current tones.

2. Station Terminals for use with terminal equipment are described as follows:

   a. Type 1001[1]

   Furnished for remote operation of radiotelegraph, supervisory control, miscellaneous signaling, teletypewriter, teletypesetter, and data use, binary signals at rates up to 75 baud.

   A two or four-wire interface engineered for binary signals at rates up to 75 baud, 20 or 62.5 milliamperes dc neutral signals. The terminal equipment with a transmitted output of no more than 8 percent telegraph distortion and capable of processing received data signals with up to 35 percent telegraph distortion.

Note 1: The Company has the option of providing 20 or 62.5 milliamperes and will notify the customer of the current level to be supplied. The Company will supply the line voltage and provide for the current adjustment. The maximum open circuit voltage across the send data leads at the interface will not exceed 270 volts.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.1 Series 1000 Channels (Cont'd)

B. Types And Descriptions (Cont'd)

2. Station Terminals for use with terminal equipment are described as follows: (Cont'd)

b. Type 1002

Furnished for teletypewriter, data, supervisory control, and miscellaneous signaling use. Binary signals at rates up to 150 baud.

EIA Standard RS232C type interface engineered for binary signals at rates up to 150 baud and the terminal equipment with a transmitted output of no more than 5 percent telegraph distortion and capable of processing received data signals with up to 40 percent telegraph distortion.

3. Interexchange Channels will fall into various types depending on uses.

a. A channel suitable for transmitting binary signals at rates up to 75 baud for use with Type 1001 Station Terminals.

b. A channel suitable for transmitting binary signals at rates up to 150 baud for use with Type 1002 Station Terminals.

C. Rates - Monthly Service

1. **(DELETED)** (D)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.1 Series 1000 Channels (Cont'd)

C. Rates - Monthly Service (Cont'd)

1. **(DELETED) (Cont'd)** (D)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.1 Series 1000 Channels (Cont'd)

C. Rates - Monthly Service (Cont'd)

2. For use with Station Terminals

a. Interexchange Channel (measured airline distance, per channel, per mile)

(1) For use with Type 1001 channels

	Nonrecurring Charge	Monthly Rate	USOC	
(a) Channels 10.0 miles or less	**$-**	**$13.21**	**1LY+4**	
(b) Channels over 10.0 miles	**-**	**5.16**	**1L3+4**	

(2) For use with Type 1002 channels

(a) **(DELETED)**				(D)
(b) Channels over 10.0 miles	**-**	**5.16**	**1L1+4**	

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.1 Series 1000 Channels (Cont'd)

C. Rates - Monthly Service (Cont'd)

2. For use with Station Terminals (Cont'd)

b. Channel Terminal, two per interexchange channel

		Nonrecurring Charge	Monthly Rate	USOC	
(1)	**(DELETED)**				(D)
(2)	For use with Type 1002 channels				
(a)	**(DELETED)**				(D)
(b)	Where the interexchange mileage is over 10 miles, Half Duplex or Duplex, per Channel Terminal	**$29.80**	**$86.23**	**O3N5O**	

B103.3.2 Series 2000 Channels

A. Rates - Monthly Service

1. For use with Terminal Equipment

(Obsoleted 12-14-90, Type 4. Not available for new installations, moves or transfers.)

a. Channel extensions within the same building that are associated with a station terminal.

(1) To connect additional station locations in a building to a station terminal or to a channel between different buildings on the same continuous property, each termination[1].

(a)	Type 2001 (2230)	**142.41**	**1.39**	**4SE++**
(b)	Type 2012 (2231)	**177.19**	**1.39**	**4SE++**
(c)	Type 2014 (2432)	**187.12**	**19.36**	**4SE++**
(d)	Type 2020 (2463)	**230.18**	**34.28**	**4SE++**
(e)	Type 2021 (2260)	**142.41**	**5.26**	**4SE++**
(f)	Type 2022 (2464)	**230.18**	**18.28**	**4SE++**
(g)	Type 2040 (2261)	**142.41**	**3.68**	**4SE++**
(h)	Type 2041 (2462)	**230.18**	**21.06**	**4SE++**

Note 1: Charges are applicable only for those facilities in place as of December 31, 1986.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.2 Series 2000 Channels (Cont'd)

A. Rates - Monthly Service (Cont'd)

1. For use with Terminal Equipment (Cont'd)

b. To connect a channel extension between different buildings on same continous property[1,2] to a station terminal

(1) First 1/10 mile

		Nonrecurring Charge	Monthly Rate	USOC	
(a)	Type 2001 (2230)	**$331.20**	**$5.16**	**1LP+E**	
(b)	Type 2012 (2231)	**354.38**	**5.26**	**1LV+E**	
(c)	Type 2014 (2432)	**506.73**	**44.31**	**1LT+E**	
(d)	Type 2020 (2463)	**524.95**	**42.73**	**1L6+E**	
(e)	Type 2021 (2260)	**331.20**	**9.43**	**1L6+E**	
(f)	Type 2022 (2464)	**524.95**	**59.32**	**1L6+E**	
(g)	**(DELETED)**				(D)
(h)	**(DELETED)**				(D)

(2) Per additional 1/10 mile

(a)	Type 2001 (2230)	**-**	**4.36**	**1LP+E**	
(b)	Type 2012 (2231)	**-**	**4.36**	**1LV+E**	
(c)	Type 2014 (2432)	**-**	**8.64**	**1LT+E**	
(d)	Type 2020 (2463)	**-**	**8.64**	**1L6+E**	
(e)	Type 2021 (2260)	**-**	**4.36**	**1L6+E**	
(f)	Type 2022 (2464)	**-**	**8.64**	**1L6+E**	
(g)	**(DELETED)**				(D)
(h)	**(DELETED)**				(D)

Note 1: Charges are applicable only for those facilities in place as of December 31, 1986.

Note 2: When a channel between different buildings on the same continuous property or within the same building requires a connection to the serving wire center, then a charge for each Station Terminal required will apply. The nonrecurring charge is per Channel.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.3 (DELETED) (D)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.3 (DELETED) (Cont'd)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.3 (DELETED) (Cont'd)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.3 (DELETED) (Cont'd)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.3 (DELETED) (Cont'd)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.3 (DELETED) (Cont'd)

B103.3.4 (DELETED) (D)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.3 Classification and Rates - Interexchange - IntraLATA (Cont'd)

B103.3.4 (DELETED) (Cont'd)

B103.4 Reserved for Future Use

B103.5 Reserved for Future Use

B103.6 Series 10000 Channels (Entrance Facilities)

(Obsoleted 12-14-90, Type 4. Not available for new installations, moves or transfers. Existing customers may add channels only to the extent that they are available.)

A. Types and Description

1. Series 10000 channels are furnished to the customer by the Company for the purpose of extending customer-provided communications systems to a premises of the customer or authorized user serving the premises of the customer or authorized user for use at such premises. Channels are furnished for half-duplex or duplex operation on a two-point basis for service 7 days per week, 24 hours per day for a minimum period of one month, except as otherwise specified.
2. Type 10001 - Approximate bandwidth of 300 - 3000 Hertz per second. Furnished, to the extent permitted by the normal transmission characteristics of this grade of channel, for types of transmission similar to those set forth for Series 1000, 1100, 2000 and 2100 channels.

B. ***Terms and Conditions*** (T)

1. In addition to the ***terms and conditions*** set forth in B2., the following ***terms and conditions*** apply to Series 10000 channels as specified below:
2. Type 10001 - The customer's or authorized user's premises must be located 25 airline miles or less from the point at which the customer-provided communication channel is connected to the Company entrance facility.

C. Rates - Monthly Service

1. Type 10001

   (Rates for entrance facilities will be based on the costs incurred on a case-by-case basis).

B103.7 Classification and Rates - Multipoint Service and Multistation Arrangements

(Obsoleted 12-14-90, Type 4. Not available for new installations, moves or transfers. Existing customers may add channels only to the extent that they are available.)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.7 Classification and Rates - Multipoint Service and Multistation Arrangements (Cont'd)

B103.7.1 General

A. A Multistation charge is applicable for each Local Channel or Service Configuration arranged to provide communications capabilities where:

- All stations of a service are located on the same premises consisting of two or more stations.
- Stations of a service are located on different premises and more than one station on the same premises is connected to that service.

1. Multistation Services which are connected to a Local Channel or a Station Terminal are offered for Types 2101, 2120, 2020, 2122 and 2022 (2230, 2463 and 2464) only.
2. A maximum of four bridged stations per premises per Local Channel or Station Terminal is allowed for Types 2120, 2020, 2122 and 2022 (2463 and 2464*)* type use.
3. Data equipment must be within 1500 feet of the termination of the Local Channel or Station Terminal.
4. Conferencing capability on a premises is provided for Type 2101 and 2001 (2230) with Multistation service.

B. Rates

1. **(DELETED)** (D)

	Nonrecurring Charge	Monthly Rate	USOC
2. Multistation Charges-Charges are applicable where more than one station location on the same premises is connected to a Local Channel or a Station Terminal			
a. Series 2100 or 2000			
(1) For Non-Key System termination, per Local Channel or Station Terminal			
(a) Type 2101 (2230) use	**$59.19**	**$12.12**	**MPG1X**
(b) Type 2001 (2230) use	**59.61**	**21.16**	**MPG1X**
(DELETED)			(D)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.7 Classification and Rates - Multipoint Service and Multistation Arrangements (Cont'd)

B103.7.1 General (Cont'd)

B. Rates (Cont'd)

2. (Cont'd)

a. Series 2100 or 2000 (Cont'd)

(DELETED) (D)

	Nonrecurring Charge	Monthly Rate	USOC
(2) For Key System termination, per Local Channel or Station Terminal			
(a) Type 2101 (2230) use	**$97.70**	**$18.16**	**MPH1X**
(b) Type 2001 (2230)	**97.70**	**31.78**	**MPH1X**

3. Multistation Charges-Charges are applicable where there are more than two station locations forming one service configuration and the service configuration is wholly within the same building or on the same continuous property or channels not routed via the central office.

a. **(DELETED)** (D)

b. Series 2100 (2000)

(1) Per Service Configuration			
(a) Type 2101 (2230) use	**155.66**	**49.96**	**MPJ1X**

(DELETED) (D)

B103.8 Classification and Rates - Sub Voice Grade Services - Series 1000 Channels

B103.8.1 Service Descriptions

(Obsoleted 09-10-91, Type 1. In consideration of the decreasing supply of metallic facilities, the Company will convert a customer's service requiring such facilities to a Voice Grade Service and waive the nonrecurring charges associated with the change. This applies to a customer where metallic facilities are being replaced with non-metallic facilities, or a customer may elect to make this change at any time prior to a modernization program that would eliminate the availability of metallic facilities.)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.8 Classification and Rates - Sub Voice Grade Services - Series 1000 Channels (Cont'd)

B103.8.1 Service Descriptions (Cont'd)

A. Sub Voice Grade Services - Series 1000 Channels

These channels are furnished for operation on a two point or multipoint basis subject to the number of point limitations indicated for each type and are provided for use with customer-provided power and signaling equipment. It is expressly declared that metallic facilities are in continually decreasing supply and that the Company does not hold itself in a position to make such facilities available. In addition, if modernization programs dictate the replacement of existing metallic facilities with non-metallic facilities such as fiber optics, the Company will not be required to continue this service over metallic facilities. The various types of services furnished within this Series are as follows:

1. Type 1204 - a two-wire interface with two-wire facilities suitable for use with direct current continuity type of equipment. Signaling must be within the criteria as described in Technical Reference, "Transmission Specifications for Private Line Metallic Circuits" and limited to three station locations. This type channel may also be used to furnish auxiliary features (such as lights, hold, signaling, etc.).

Current applied by CPE	- ac & dc components per conductor, not to exceed 0.150 amperes rms
Magnitude of the peak of the voltage between any conductor and ground	- not to exceed 70.7 volts (50 volts rms) except continuous dc voltage not to exceed 135 volts.

2. Type 1205 - A two-wire interface with two-wire facilities suitable for low speed, uni-directional series-operated signaling. Transmission specifications as described in Technical Reference, "Transmission Specification for Low Speed Signaling System Channels". Service is limited to three serving wire centers and 26 stations.

B103.8.2 Local Channels

A. Sub Voice Grade

1. Per point of termination

	Monthly Rate	Nonrecurring Charge First	Nonrecurring Charge Additional	USOC	
(a) Type 1204	**$20.21**	**$698.40**	**$259.20**	**P1JAX**	
(b) Type 1205	**21.60**	**518.40**	**172.80**	**P1JHX**	

B103.8.3 Non-Wire Center Connected Channels

(Obsoleted 8/25/03, Type 2: Not offered for new installations on or after 8/25/03).

A. Served Direct

1. Not routed via the central office, limited to one airline mile or less

(a) Series 1000	**17.28**	**698.40**	**259.20**	**SDD1X**	
(b) Series 2000	**18.00**	**698.40**	**259.20**	**SDD2X**	
((DELETED)					(D)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.8 Classification and Rates - Sub Voice Grade Services - Series 1000 Channels (Cont'd)

B103.8.4 Interoffice Channels

A. Fixed and Mileage Charges applicable, per channel

1. Sub Voice Grade - Series 1000[1]

		Fixed Monthly Charge	Monthly Charge Per Mile	Nonrecurring Charge Per Channel	USOC	
(a)	1 thru 8 Miles	*$72.00*	*$2.95*	*$165.60*	**3LBAS**	(I)
(b)	9 thru 25 Miles	*72.00*	*2.88*	*165.60*	**3LBAS**	(I)
(c)	Over 25 Miles	*72.00*	*2.80*	*165.60*	**3LBAS**	(I)

Note 1: Metallic interoffice channels for Type 1204 Local Channels are no longer available for new installations, moves, or transfers. Metallic interoffice facilities are in continually decreasing supply due to modernization programs that replace existing metallic interoffice with non-metallic facilities such as fiber optics.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.9 Provision of Service (T)(O)

Effective June 30, 2021, Channel Services will no longer be available for purchase by new or existing customers, and service agreements may no longer be renewed. In addition, requests to move, add or change existing service arrangements will not be accepted. Following the expiration of a customer's existing term agreement, service will be provided on a month-to-month basis at the applicable Monthly rates until the service is discontinued. The Company currently plans to discontinue these services on or after June 30, 2024. (N)

B103.9.1 General (T)(O)

A. Channel Services provided under the provisions of this Guidebook are offered for IntraLATA Services only. Services consisting of Local Channels, Interoffice Channels, and Optional Features and Functions are classified by series. The various series are sub-divided into different types and are described in terms of circuit characteristics and use. (O)

B. Customers may order local channels which are designed to meet specific communications requirements. The customer is responsible for determining that his terminal equipment is compatible with the service provided by the Company. (O)

C. Where multi-point service is furnished, the local channels are bridged in the wire center. (O)

D. Dedicated circuits between the customer's interLATA Electronic Tandem Switching (ETS) Digital Electronic Tandem Switching (DETS) or Tandem Switching Features (TSF) functions and the customer's other location(s) within the same LATA will be provided from this Guidebook. Where this service is provided by the Company as a feature of ESSX service, Digital ESSX service, MultiServ service, MultiServ PLUS service, or BellSouth Centrex service, the transport of traffic between the ETS function and the basic ESSX service, Digital ESSX service, MultiServ service, MultiServ PLUS service, or BellSouth Centrex service function may be performed by the Company's network switching facilities. SFG charges for this service will apply and are found in A112.26.7. and A12.28.7. and A112.20 of the General Exchange Guidebook. (O)

B103.9.2 Application (T)(O)

The rates and charges specified herein apply for all IntraLATA Private Line services provided by the Company. (O)

B103.9.3 Rate Categories (T)(O)

A. Following are the basic rate categories which apply to Private Line service. (O)

1. Local Channels (O)

   a. A local channel provides for a communications path between the demarcation point at a customer premises and the serving wire center of that premises. One local channel charge applies per channel termination. (O)

   b. When service is provided by non-wire center connected channels, a non-wire center connected channel charge applies in lieu of local channel charges. (O)

2. Interoffice Channels (O)

   This rate category provides for the transmission facilities between serving wire centers associated with two customer premises, between serving wire centers associated with a customer premises and a Company hub, or between two Company hubs. (O)

   Interoffice mileage is portrayed in mileage bands. A flat rate and a rate per mile applies to each band. For method of determining mileage, see ***B103.11.3.A***. (T)(O)

3. Non-Wire Center Connected Channels (O)

   Served Direct channels are provided on a direct basis and are limited to one airline mile in length. These channels will be provided only at the option of the Company. (O)

   See Section ***B103.12.2*** for charges for channels. (T)(O)

4. Optional Features and Functions (O)

   This rate category provides for features and functions which may be added to a service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of the performance characteristics which may be obtained. This category includes a. and b. following: (O)

   a. Hub Functions (O)

      A hub is a Company designated wire center where bridging or multiplexing functions are performed i.e., connecting three or more customer premises in a multipoint arrangement or channelizing analog or digital services requiring a lower capacity or bandwidth. (O)

   b. Provides for such things as signaling, conditioning, transfer arrangements, protection switching, etc. (O)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.9 Provision of Service (Cont'd) (T)(O)

B103.9.4 Service Configurations (T)(O)

A. There are two types of service configurations which can be provided. These are described as follows: (O)

1. Two-Point Service (O)

   A two-point service connects two customer premises either directly through a serving wire center(s) or through a Company hub where additional functions are performed. (O)

2. Multipoint Service (O)

   a. Multipoint service connects three or more customer premises through a Company hub. (O)

   b. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between hubs (i.e., bridging locations). (O)

   c. Voice Grade (Series 2000) Multipoint Channel services for data use have a limit of 6 two-wire facility type local channels or 20 four-wire facility type local channels when used with customer-provided station equipment. These units do not apply to Telemetry/Alarm Bridging Service (TABS). (O)

   d. Only certain types of service are available for multipoint applications. These are so designated in the service descriptions set forth in ***B103.10*** following. (T)(O)

B103.9.5 Special Routing of IntraLATA Channels (T)(O)

A. The private line services furnished in this Guidebook are provided over such routes as the Company may elect. (O)

B. Special routing is involved where, in order to comply with requirements specified by the customer, the Company furnishes the private line service in a manner which includes one or both of the following conditions: (O)

1. Where two or more private lines must be furnished over different physical routes. (O)
2. Where a private line must be furnished on a route which avoids specified geographical locations. (O)

C. When special routing of services is furnished a customer, the rates will be determined on an individual case basis. (O)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.10 Service Descriptions (T)(O)

B103.10.1 Sub Voice Grade Services - Series 1000 Channels (Obsoleted, See Section *B103.2.1*) (T)(O)

B103.10.2 Voice Grade Service - Series 2000 (T)(O)

A. Series 2000 voice grade service provides for voice and/or data communications on a two point or multipoint basis for service 7 days per week, 24 hours per day, for a minimum period of one month. These channels may also be furnished on a link (partial channel) basis when connected to services such as FlexServ service, MegaLink channel service and/or LightGate service. Channels which provide Tie Line Service will not be furnished to connect a flat rate system with a message rate system. The transmission characteristics and various types of services furnished within this Series are described in B. and C. following. (O)

B. Basic parameters and specifications for Series 2000 voice grade service are described for the end to end operation as follows: (O)

Basic Parameters	**For Speech Application**	**For Data Application**	(O)
Net Loss	Local Channels used with terminal equipment: Limit as specified in the following Local Channel descriptions. Losses or gains present in CPE have not been included.		(O)
DC Resistance	Local Channel limit as specified in the following Local Channel descriptions. Does not imply or guarantee end to end DC continuity.		(O)
Frequency Error	Plus or Minus 5 Hz	Plus or Minus 5 Hz	(O)
Frequency Response	(Referenced to 1000 Hz Loss)		(O)
300 - 3000 Hz	-3dB to + 12dB	-3dB to +12dB	
500 - 2500 Hz	-2dB to + 8dB	-2dB to + 8dB	
Envelope Delay Distortion			(O)
800 - 2600 Hz	Not Controlled	Less than 1750 Microseconds	(O)
C-Notched Noise (with a -13dBm0 1000 Hz Test Signal)	Not Controlled	Noise level 24dB below signal level	(O)
Impulse Noise	Not Controlled	15 Counts in 15 minutes at a threshold of 6dB below a -13dBm0 rms 1000 Hz Signal	(O)
Phase Jitter	Not Controlled	10 degrees peak to peak	(O)
Non-Linear Distortion			(O)
2nd Order Distortion	Not Controlled	25dB below signal level	(O)
3rd Order Distortion	Not Controlled	30dB below signal level	(O)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.10 Service Descriptions (Cont'd) (T)(O)

B103.10.2 Voice Grade Service - Series 2000 (Cont'd) (T)(O)

C. Transmission parameters for voice grade service are described following: (O)

1. Type 2230 - A two-wire interface with effective two-wire facilities engineered for a 1004 Hz net loss of 0 to 10dB. Generally furnished for voice transmission - Private Line Telephone, Mobile Radio Telephone, or Supervisory Control Use. Multipoint service may be provided at charges specified in ***B103.12.4.A.*** following. (T)(O)
2. Type 2231 - A two-wire interface with two or four-wire facilities engineered for a 1004 Hz net loss of 0dB to 4.5dB. This is generally used for PBX (or similar system) main or extension station services. Signaling is required for this service. (O)
3. Type 2432 - A two or four-wire interface with effective four-wire facilities engineered for tie line service use between PBX's or customer-provided communications systems. Signaling is required for this service. (O)
4. Type 2434 - A two or four-wire interface for connection to the serving wire center where loop facilities are not required. This channel is suitable for tie line service (with E&M signaling) between Centrex Type Services Systems and may be connected with Type 2432 local channels. (O)
5. Type 2435 - A four-wire interface with effective four-wire facilities engineered for a 1004 Hz net loss of 0 to 16db. Generally furnished for voice transmission. Multipoint service may be provided at charges specified in ***B103.12.4.A.*** following. (T)(O)
6. Type 2260 - A two-wire[1] interface with effective two-wire facilities engineered for a 1004 Hz net loss of 16dB. Generally used in the provision of low speed (1200 baud or less) half duplex data services. (O)
7. Type 2261 - A two-wire interface with effective two-wire facilities engineered for use in Telemetry/Alarm Bridging Service (TABS). (O)
8. Type 2462 - A four-wire interface with effective four-wire facilities engineered for use in Telemetry/Alarm Bridging Service (TABS). (O)

D. Signaling Arrangements (O)

1. Off Premises Stations (O)
   a. For use with PBX (or similar system) off-premises channels for terminal equipment. Signaling arrangements are furnished for grandfathered and registered PBX (or similar) systems in accordance with Part 68 of the FCC Rules and Regulations or for customer-provided communications systems not subject to Part 68 of the FCC Rules and Regulations. (O)

      Type A - Furnished for use with Class A PBX (or similar) system station ports capable of operation over loops with resistance in the range of 0-199 ohms. (O)

      Type B - Furnished for use with Class B PBX (or similar) system station ports capable of operations over loops with resistance in the range of 200-899 ohms. (O)

      Type C - Furnished for use with Class C PBX (or similar) system station ports capable of operation over loops with resistance in the range of 900 ohms or more. (O)

   b. For connections to registered or grandfathered PBX (or similar) system equipment, the customer must specify the equipment capability for use with Type A, B, or C Signaling Arrangements. (O)
2. Tie Lines (O)
   a. E&M signaling is provided for use with tie line channels with E&M signaling interfaces. Signaling Arrangements are furnished for grandfathered and registered PBX's in accordance with Part 68 of the FCC Rules and Regulations or for customer-provided communications systems not subject to Part 68 of the FCC Rules and Regulations. (O)

      - An E&M Signaling Arrangement is required for each tie line termination, operating in a Dial Repeating mode, at a customer's premises with a registered PBX. (O)
      - An E&M Signaling Arrangement is required for each tie line termination at a customer's premises with grandfathered PBX's when the tie line is arranged with an E&M signaling interface. (O)
      - An E&M Signaling Arrangement is required with Types 2432 and 2434 channels for additions to or for new installations of grandfathered PBX equipment when not arranged with an E&M signaling interface. (O)
      - An E&M Signaling Arrangement is required for each Type 2432 or 2434 channel termination at a customer's premises with a customer-provided communications system not subject to Part 68 of the FCC Rules and Regulations when arranged with an E&M signaling interface. (O)

      Note 1: Transmission data characteristics can only be met and guaranteed for the two-wire interface when the airline distance from the serving wire center to the customer's premises is one mile or less and the interoffice channel is not greater than 4 airline miles between serving wire centers. (O)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.10 Service Descriptions (Cont'd) (T)(O)

B103.10.2 Voice Grade Service - Series 2000 (Cont'd) (T)(O)

E. Telemetry/Alarm Bridging Service (TABS) (T)(O)

1. Terms and Conditions (O)

   a. This section contains the terms and conditions applicable for Telemetry/Alarm Bridging Service (TABS). (O)

   b. Except as otherwise specified following, the terms and conditions contained herein are in addition to the terms and conditions found in other sections of this Guidebook. (O)

   c. TABS requires the use of equipment as specified herein and Type 2261 or 2462 voice grade local channels described in C. preceding. (O)

   d. Terminal equipment provided by the customer for use with TABS must meet specifications for such customer-provided equipment found in other sections of this Guidebook. (O)

   e. No more than 128 remote stations may be connected to a master station over an individual Split Band Active Bridge. (O)

   f. In Split Band Active Bridging arrangements, secondary bridges must be directly connected to the primary bridge via mid-link channels. Secondary bridges cannot be connected through other secondary bridges to allow additional layers of tandeming. (O)

   g. Secondary bridges, utilized in Split Band, Active Bridging arrangements, reduce the two-wire remote station capacity of the primary bridge. The initial secondary bridge reduces the primary bridge capacity by twelve two-wire remote station connections. Each subsequent secondary bridge reduces the primary bridge capacity by four additional two-wire remote station connections. (O)

   h. Standard multipoint bridging charges as provided in other sections of this Guidebook are not applicable to TABS. (O)

   i. Access over four-wire master station channels for Split Band Active Bridging is provided using a Type 2462 local channel. (O)

   j. Access over remote station channels is provided through a Type 2261 local channel and through the appropriate channel connection as contained in ***B103.12.4.A.1.c.*** following. Interconnection of remote stations located outside the serving wire center where the bridge to which they are to be connected is located will require interoffice channels at charges contained in ***B103.12.3***. (T)(O)

   k. Access over each four-wire mid-link channel for Split Band Active Bridging is through voice grade interoffice channels at charges contained in ***B103.12.3***. Additionally, mid-link channel connections are required as described in ***B103.12.4.A.1.c.*** following. (T)(O)

2. Service Description (O)

   a. Telemetry/Alarm Bridging Service is a multi-station, voice frequency, private line service designed to provide connections between a master station and a number of remote stations simultaneously. Direct transmission between remote stations is not intended. This service is intended for application in multipoint, voice frequency, data or tone signaling arrangements with transmission at rates up to 400 baud. (O)

   b. TABS is provided in the following arrangement: (O)

      Split Band, Active Bridging - A bridging arrangement providing for a four-wire (master station or mid-link channel) frequency split common port and multiple two-wire (remote station) ports intended for application in multipoint, voice frequency, data or tone signaling arrangements. Two-way (polling) communication between the master station and each remote station is intended. (O)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.11 Rate Terms and Conditions (T)(O)

B103.11.1 Types of Rates and Charges (T)(O)

A. The two types of rates and charges are monthly rates and nonrecurring charges and are described as follows: (O)

1. Monthly Rates (O)

   Monthly rates are recurring charges that apply each month or fraction thereof that a service is provided. For billing purposes, each month is considered to have 30 days. (O)

2. Nonrecurring Charges (O)

   Nonrecurring Charges are one-time charges that apply for a specific work activity. The three types of nonrecurring charges that apply are installation of service, installation of features and functions and service rearrangements. (O)

   a. Installation of Service (O)

      Nonrecurring charges apply for each service terminated at the customer's premises. For the installation of local channels when more than one of the same type of service, between the same locations, for the same customer is ordered and installed at the same time, one at each location is billed at the First Service Installed rate and the others are billed at the Additional Service Installed rate. (O)

      The nonrecurring charges for the Installation of Services are set forth in ***B103.12*** following as Nonrecurring Charges for the Local Channel and Interoffice Channel rate elements. (T)(O)

   b. Nonrecurring charges apply for the installation of features and functions available with the various services. For some features and functions there is a lower charge if installed coincident with the service and a higher charge if installed subsequent to the service. (O)

   c. Service Rearrangements (O)

      (1) Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements or a change in the physical location of the point of termination at a customer premises. Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts. Changes in the physical location of the point of termination are treated as moves and are described and charged for as set forth in ***B103.11.2***. (T)(O)

      The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service. (O)

      Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Private Line Service to the same entity (i.e., customer remains responsible for all outstanding indebtedness for the service). Administrative changes are as follows: (O)

      - Change of customer name (i.e., the customer of record does not change but rather the customer of record changes name), (O)
      - Change of customer or customer's premises address when the change of address is not a result of a physical relocation of equipment. (O)
      - Change in billing data (name, address or contact name or telephone number). (O)

      (2) All other service rearrangements will be charged for as follows: (O)

      - If the change involves the addition of other customer designated premises to an existing multipoint service, the nonrecurring charge for the local channel rate element will apply. The charges will apply only for the location(s) that is being added. (O)
      - If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply. (O)
      - If the change involves changing the type of signaling on a voice grade service the subsequent, nonrecurring charge will apply for the new type signaling. The charge will apply per service termination affected. (O)
      - For all other changes, including a change of the customer of record involving no physical changes to the service provided or the addition of optional features without separate nonrecurring charges, a charge equal to a local channel rate element nonrecurring charge will apply. Only one such charge will apply per service, per change. (O)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.11 Rate Terms and Conditions (Cont'd) (T)(O)

B103.11.2 Moves (T)(O)

A. A move involves a change in the physical location of one of the following: (O)

1. The point of interface at the customer premises. (O)
2. The customer's premises. (O)

B. The charges for the move are dependent on whether the move is to a new location within the same building or to a different building. (O)

1. Moves Within the Same Building (O)

   When the move is to a new location within the same building, the charge for the move will be an amount equal to one-half the nonrecurring (i.e., installation) charge for the affected service termination at the customer's premises. There will be no change in the minimum period requirements. If a move is made at the same time a service rearrangement is made, the total charge will never exceed a full nonrecurring charge for the basic service. (O)

2. To a Different Building (O)

   Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established at the new location. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service. (O)

B103.11.3 Mileage Measurements (T)(O)

A. When station locations of a private line service are located in different wire center serving areas, interoffice channel charges apply. Charges are based on the direct airline distance measured between the serving wire centers. Mileage is determined in accordance with the following: (O)

1. Obtain the "V" and "H" coordinates for each wire center, as listed in the National Exchange Carrier Association Tariff F.C.C. No. 4. (O)
2. Obtain the difference between the "V" coordinates of the two wire centers. Obtain the difference between the "H" coordinates. (The difference is always obtained by subtracting the smaller coordinate from the larger coordinate.) (O)
3. Square each difference obtained in 2. preceding. (O)
4. Add the squares of the "V" difference and the "H" difference obtained in 3. preceding. (O)
5. Divide the sum of the squares obtained in 4. preceding by 10. (O)
6. Obtain the square root of the result obtained in 5. preceding. This is the rate distance in miles. (Fractional miles being considered as full miles.) (O)

   EXAMPLE: The rate distance is required between City One and City Two. (O)

	V	H		
City One	7260	2083		(O)
City Two	7364	1865		(O)
Difference	104	218		(O)
Squared	10,816 + 47,524	=	58,340	(O)

58,340 divided by 10 = 5834 (O)

Square root of 5834 = 76.38 = 77 Airline miles (O)

B. When a private line is furnished over facilities which the Company elects to provide on a direct basis and is not routed through a central office, one two-point channel charge from ***B103.12.2*** will apply. The arrangement is limited to channels not more than one airline mile in length. (T)(O)

C. For the purpose of applying multipoint charges, the bridging or hubbing locations are determined by that combination of airline distances connecting the serving wire center which will produce the lowest interoffice mileage charges. Bridging charges apply when three or more channels connect at the same location. (O)

D. For Series 1000 and 2000 channels the customer may specify the sequence in which the service points are to be connected in which case the rate mileage is the shortest airline mileage determined in accordance with paragraph C. preceding which will connect the wire centers of the service points in the specified sequence. (O)

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.12 Rates and Charges

B103.12.1 Local Channels

A. Sub Voice Grade (Obsoleted, See B103.3)

		Monthly Rate	Nonrecurring Charge First	Nonrecurring Charge Additional	USOC
B.	Voice Grade Per point of termination				
1.	Voice				
(a)	Type 2230	**$9,219.00 (I)**	**$496.80**	**$165.60**	**P2JUX**
(b)	Type 2231	**9,219.00 (I)**	**496.80**	**165.60**	**P2JHX**
(c)	Type 2432	**13,844.00 (I)**	**561.60**	**208.80**	**P2JQX**
(d)	Type 2434	**2,864.00 (I)**	**237.60**	**119.52**	**P2JGX**
(e)	Type 2435	**13,844.00 (I)**	**532.80**	**187.20**	**P2JWX**
(f)	Type 2261	**10,723.00 (I)**	**835.20**	**352.80**	**P2JLX**
(g)	Type 2462	**12,768.00 (I)**	**813.60**	**338.40**	**P2JRX**
2.	Data				
(a)	Type 2260	**10,723.00 (I)**	**597.60**	**230.40**	**P2JKX**
(b)	Type 2463	**14,623.00 (I)**	**597.60**	**230.40**	**P2JMX**
(c)	Type 2464	**14,623.00 (I)**	**590.40**	**223.20**	**P2JNX**

B103.12.2 Non-Wire Center Connected Channels (Obsoleted, See Section B103.3)

B103.12.3 Interoffice Channels[1]

		Fixed Monthly Rate	Monthly Rate Per Mile	Nonrecurring Charge	USOC
A.	Fixed and Mileage Charges applicable, per channel				
1.	Sub Voice Grade - Series 1000 (Obsoleted, See Section B103.3)				
2.	Voice Grade Service - Series 2000				
(a)	1 thru 8 Miles	**$13,315.00 (I)**	**$997.00 (I)**	**$151.20**	**3LBBS**
(b)	9 thru 25 Miles	**13,315.00 (I)**	**997.00 (I)**	**151.20**	**3LBBS**
(c)	Over 25 Miles	**13,315.00 (I)**	**997.00 (I)**	**151.20**	**3LBBS**

Note 1: For method of determining mileage, see B103.11.3.A.

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.12 Rates and Charges (Cont'd)

B103.12.4 Optional Features and Functions

A. Bridging

Bridging charges are applicable where more than two Local Channels, or one or more Local Channels and more than one Interoffice Channel, or more than one Local Channel and one Interoffice Channel are bridged or hubbed at the same wire center. No additional bridging charges are applicable for Series 1000, Types 1204 and 1205.

	Nonrecurring Charge	Monthly Rate	USOC
1. Voice Grade Bridges (Series 2000)			
a. Voice Bridging			
(1) Per Port			
(a) Two-Wire (Type 2230)	**$56.16**	**$3,507.00 (I)**	**BQ9**
(b) Four-Wire (Type 2435)	**56.16**	**4,583.00 (I)**	**BQ9**
b. Data Bridging			
(1) Per Port			
(a) Four-Wire (Types 2463 and 2464)	**61.92**	**6,619.00 (I)**	**BQ9**
c. Telemetry and Alarm Bridging - Split Band, Active Bridging			
(1) Common Equipment, per central office			
(a) First bridging shelf, capacity of 48 two-wire connections	**365.00**	**13,227.00 (I)**	**XW1**
(b) Additional bridging shelf, capacity of 56 two-wire connections installed subsequent to the first bridging shelf	**330.00**	**13,227.00 (I)**	**XW2**
(c) Additional bridging shelf, capacity of 56 two-wire connections installed at the same time as the first bridging shelf	**205.00**	**6,693.00 (I)**	**XW8**
(2) Channel connections, per channel connected			
(a) Remote station channel connection	**40.00**	**517.00 (I)**	**XW3**
(b) Mid-link channel connection, first channel	**47.00**	**1,312.00 (I)**	**XW4**
(c) Mid-link channel connection, subsequent channels	**47.00**	**1,312.00 (I)**	**XW5**

B. Signaling Arrangements

Signaling arrangements are provided at the customer's option to arrange channels for suitable signaling. Signaling is required on all off-premises extension channels and tie line channels associated with PBX (or similar) systems.

1. Per local channel

	Monthly Rate	Nonrecurring Charge Initial	Nonrecurring Charge Subsequent	USOC
(a) Ringdown - Manual	**$2,133.00 (I)**	**$60.48**	**$309.60**	**SL3**
(b) Ringdown - Automatic	**1,954.00 (I)**	**21.60**	**106.56**	**SL5**
(c) E & M Type	**1,954.00 (I)**	**61.92**	**273.60**	**SLM**
(d) Type A (0-199 ohms)	**1,152.00 (I)**	**60.48**	**201.60**	**SAL**
(e) Type B (200-899 ohms)	**1,152.00 (I)**	**59.04**	**201.60**	**SAU**
(f) Type C (900 or more ohms)	**517.00 (I)**	**15.84**	**201.60**	**SAY**

B103. OBSOLETE SERVICE OFFERINGS - CHANNELS

B103.12 Rates and Charges (Cont'd)

B103.12.4 Optional Features and Functions (Cont'd)

C. Conditioning (Voice Grade Services)

1. Conditioning provides more specific transmission characteristics for data services. There are two types of C-conditioning and one type of D-conditioning, each with different technical specifications. C-Type conditioning controls attenuation distortion and envelope delay distortion. D-Type conditioning controls the signal to C-notched noise ratio and intermodulation distortion.

   Conditioning is charged for on a per Local Channel basis for two-point and multi-point service. For two-point services the parameters apply to each service. For multipoint services the parameters apply to any path between any two service points.

2. The types and description of the available conditioning options are as follows:

Type Conditioning	**Frequency Response Specification**	**Envelope Delay Distortion Specification**	
C1 (two-point or multipoint)	300-2700 Hz, -2dB to +6dB. 1000-2400 Hz, -1dB to +3dB. 300-3000 Hz, -3dB to +12dB.	1000-2400 Hz, less than 1000 microseconds	
C2 (two-point or multipoint)	300-3000 Hz, -2dB to +6dB. 500-2800 Hz, -1dB to +3dB.	1000-2600 Hz, less than 500 microseconds 600-2600 Hz, less than 1500 microseconds 500-2800 Hz, less than 3000 microseconds	
		Non-Linear Distortion	
	C-Notched Noise	**2nd Order Distortion**	**3rd Order Distortion**
D1 (two-point)	Noise level 28dB below signal level	35dB below signal level	40dB below signal level

3. When a channel is equipped with Type D1 conditioning and is utilized for voice communications, the Company does not undertake to represent that the channel will be suitable for such voice transmission.

4. C-Type Conditioning

   a. C-Type Conditioning is available for Types 2463 and 2464.

	Monthly Rate	**Nonrecurring Charge Initial**	**Subsequent**	**USOC**
(1) C-Types of Conditioning per local channel				
(a) C1-Type	**$517.00 (I)**	**$14.40**	**$122.40**	**P2W**
(b) C2-Type	**517.00 (I)**	**31.68**	**135.36**	**P3W**

5. D-Type Conditioning

   a. D-Type Conditioning is available for Types 2463 and 2464.

(1) D-Type Conditioning per local channel				
(a) D1-Type	**517.00 (I)**	**21.60**	**128.16**	**QHA**